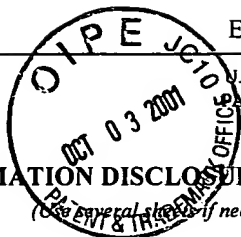


FORM PTO-1449
(REV.7-80)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
690022.525C7APPLICATION NO.
09/919,602

INFORMATION DISCLOSURE STATEMENT

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APPLICANTS

Sudhakar Kasina et al.

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July 30, 2001

GROUP ART UNIT

1619 1616

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>JS</i>	AA	4,195,073	03/25/80	Newman	424	1	
<i>JS</i>	AB	4,217,339	08/12/80	Bohn et al.			
<i>JS</i>	AC	4,223,002	09/16/80	Newman	424	1	
<i>JS</i>	AD	4,348,316	09/07/82	Bohn et al.			
<i>JS</i>	AE	4,410,688	10/18/83	Denkewalter et al.			
<i>JS</i>	AF	4,455,290	06/19/84	Olexa et al.			
<i>JS</i>	AG	4,468,345	08/28/84	Bohn et al.			
<i>JS</i>	AH	4,507,229	03/26/85	Bohn			
<i>JS</i>	AI	4,507,466	03/26/85	Tomalia et al.			
<i>JS</i>	AJ	4,518,584	05/21/85	Mark et al.			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
<i>JS</i>	AK	AU-A-14027/88	09/29/88	AU		
<i>JS</i>	AL	CA 2,021,147	01/16/91	Canada		
<i>JS</i>	AM	CA 2,032,751	06/21/91	Canada		
<i>JS</i>	AN	CA 2,040,722 A1	10/19/91	Canada		
<i>JS</i>	AO	DE 38 10 331 A1	10/05/89	DE (+ Derwent Abstract Acc. No. 89/293724/198941)		X

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>JS</i>	AP	Alderson, "Scintigraphic Diagnosis of Pulmonary Embolism: Where Do We Go From Here?," <i>Radiology</i> 193: 22-23, 1994.
<i>JS</i>	AQ	Baldwin et al., "Purification and Partial Amino Acid Sequence of Annexin V from Porcine Gastric Mucosal Membranes," <i>Comp. Biochem. Physiol.</i> 100B(4): 661-665, 1991.
<i>JS</i>	AR	Barrett et al., "RP431 A Potential Thrombus Imaging Agent," <i>The Journal Of Nuclear Medicine</i> 36(5): p. 16P, Abstract No. 55, 1995.

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9/25/2002

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Sudhakar Kasina et al.

FILING DATE

July 30, 2001

GROUP ART UNIT

1619

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AA	4,558,120	12/10/85	Tomalia et al.			
AB	4,568,737	02/04/86	Tomalia et al.			
AC	4,571,336	02/18/86	Houck et al.			
AD	4,587,329	05/06/86	Tomalia et al.			
AE	4,592,863	06/03/86	Bohn et al.			
AF	4,594,328	06/10/86	Bohn			
AG	4,673,562	06/16/87	Davison et al.			
AH	4,732,891	03/22/88	Maki et al.			
AI	4,736,018	04/05/88	Reutelingsperger			
AJ	4,746,505	05/24/88	Jones et al.			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
AK	EP 055 028 A1	06/30/82	EPO			
AL	EP 063 002 B1	10/20/82	EPO			
AM	EP 213 175 B1	07/25/90	EPO			
AN	EP 351 826 A2	01/24/90	EPO			
AO	EP 432 988 A1	06/19/91	EPO			

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AP	Bautovich et al., "Detection of Deep Venous Thrombi and Pulmonary Embolus with Technetium-99m-DD-3B6/22 Anti-fibrin Monoclonal Antibody Fab' Fragment," <i>The Journal of Nuclear Medicine</i> 35(2): 195-202, 1994.
AQ	Biessen et al., "Synthesis of Cluster Galactosides with High Afinity for the Hepatic Asialoglycoprotein Receptor," <i>J. Med. Chem.</i> 38: 1538-1546, 1995.
AR	Bryson et al., "Protecting Groups in the Preparation of Thiolate Complexes of Technetium," <i>Inorganic Chemistry</i> 29(16): 2948-2951, 1990.

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	APPLICANTS Sudhakar Kasina et al.		
	FILING DATE July 30, 2001	GROUP ART UNIT 1619	

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	4,746,731	05/24/88	Bohn			
	AB	4,874,743	10/17/89	Wallner et al.			
	AC	4,879,224	11/07/89	Wallner et al.			
	AD	4,897,255	01/30/90	Fritzberg et al.			
	AE	4,937,324	06/26/90	Fujikawa et al.			
	AF	4,950,646	08/21/90	Wallner et al.			
	AG	4,959,314	09/25/90	Mark et al.			
	AH	4,965,392	10/23/90	Fritzberg et al.			
	AI	4,990,597	02/05/91	Löbermann et al.			
	AJ	5,026,913	06/25/91	McBride et al.			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	AK	EP 668 353 A1	08/23/95	EPO		
	AL	EP 668 354 A1	08/23/95	EPO		
	AM	GB 1 555 197	11/07/79	GB		
	AN	GB 2 212 502 A	07/26/89	GB		
	AO	WO 86/04606	08/14/86	PCT		

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	AP	Butler et al., "Accurate Detection of Lower Limb Deep Venous Thrombosis Using a New Radiolabeled Thrombus Specific Agent," <i>The Journal Of Nuclear Medicine</i> 36(5):p. 89P, Abstract No. 362, 1995.
	AQ	Cerqueira et al., "In Vivo Thrombus labeling with Annexin-V, A Human Protein with High Affinity for Activated Platelets," <i>The Journal Of Nuclear Medicine</i> 32(5):p.928, Abstract No. 82, 1991.
	AR	Cerqueira et al., "Noninvasive Arterial Thrombus Imaging with ^{99m} Tc Monoclonal Antifibrin Antibody," <i>Circulation</i> 85(1): 293-304, 1992.

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APPLICANTS

Sudhakar Kasina et al.

FILING DATE

July 30, 2001

GROUP ART UNIT

1619

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	5,037,630	08/06/91	Fritzberg et al.			
	AB	5,055,561	10/08/91	Packard et al.			
	AC	5,071,636	12/10/91	Yamauchi et al.			
	AD	5,075,099	12/24/91	Srinivasan et al.			
	AE	5,080,884	01/14/92	McBride et al.			
	AF	5,081,019	01/14/92	Wallner et al.			
	AG	5,097,019	03/17/92	Löbermann et al.			
	AH	5,104,638	04/14/92	Nosco			
	AI	5,106,951	04/21/92	Morgan, Jr. et al.			
	AJ	5,112,954	05/12/92	Abrams et al.			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	AK	WO 86/06839	11/20/86	PCT		
	AL	WO 89/10140	11/02/89	PCT		
	AM	WO 91/07187	05/30/91	PCT (WPI Abstract. No. 91-149572 only)		
	AN	WO 91/09628	07/11/91	PCT		
	AO	WO 91/17168	11/14/91	PCT		

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	AP	Crumpton, "Protein Terminology Tangle," <i>Nature</i> 345: p. 212, 1990.
	AQ	De Bruyn et al., "Imaging of Thrombi in Pulmonary Arteries with Enzymatically Inactivated Radiolabeled Tissue-Type Plasminogen Activator," <i>Circulation</i> 90(4, Part 2):p. I-369, 1994.
	AR	De Bruyn et al., "Visualization of Thrombi in Pulmonary Arteries with Radiolabeled, Enzymatically Inactivated Tissue-Type Plasminogen Activator." 1995, vol. 92, No. 5, pp. 1320-1325.

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APPLICANTS

Sudhakar Kasina et al.

FILING DATE

July 30, 2001

GROUP ART UNIT

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U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	5,120,526	06/09/92	Fritzberg et al.			
	AB	5,162,505	11/10/92	Dean et al.			
	AC	5,164,176	11/17/92	Gustavson et al.			
	AD	5,179,081	01/12/93	Iwasaki et al.			
	AE	5,202,419	04/13/93	Grundmann et al.			
	AF	5,225,537	07/06/93	Foster			
	AG	5,242,679	09/07/93	Fritzberg et al.			
	AH	5,250,666	10/05/93	Gustavson et al.			
	AI	5,252,713	10/12/93	Morgan et al.			
	AJ	5,258,497	11/02/93	Reutelingsperger et al.			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	AK	WO 92/19279	11/12/92	PCT		
	AL	WO 94/07537	04/14/94	PCT		
	AM	WO 94/09036	04/28/94	PCT		
	AN	WO 94/19024	09/01/94	PCT		
	AO	WO 94/22490	10/13/94	PCT		

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	AP	Delpassand et al., "Synthesis Biodistribution and Estrogen Receptor Scintigraphy of In-111 DTPA Tamoxifen Analogue," <i>The Journal Of Nuclear Medicine</i> 36(5):p. 161P, Abstract No. 732, 1995.
	AQ	Demange et al., "Annexin V: The Key to Understanding Ion Selectivity and Voltage Regulation?," <i>TIBS</i> 19: 272-276, 1994.
	AR	Dewhurst et al., "Noninvasive Imaging of Left Atrial Thrombi with Intravenous Administration of Radiolabeled Annexin V," <i>Journal of the American College of Cardiology</i> , vol. O, p. 424A, 1994.

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	APPLICANTS Sudhakar Kasina et al.		
	FILING DATE July 30, 2001	GROUP ART UNIT 1619	

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	5,279,811	01/18/94	Bergstein et al.			
	AB	5,288,623	02/22/94	Zenno et al.			
	AC	5,296,467	03/22/94	Reutelingsperger			
	AD	5,298,489	03/29/94	Wallner et al.			
	AE	5,314,992	05/24/94	Guyre et al.			
	AF	5,320,950	06/14/94	Grundman et al.			
	AG	5,330,738	07/19/94	Nosco			
	AH	5,332,678	06/21/94	Morgan, Jr. et al.			
	AI	5,371,184	12/06/94	Rajagopalan et al.			
	AJ	5,380,646	01/10/95	Knight et al.			

FOREIGN PATENT DOCUMENTS

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					YES	NO
	AK	WO 95/34315	12/21/95	PCT		
	AL	WO 96/17613	06/13/96	PCT		
	AM	WO 96/17618	06/13/96	PCT		
	AN					
	AO					

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	AP	Dewhurst et al., "Tc-99m annexin V uptake by left atrial and coronary thrombi," <i>Journal of Nuclear Medicine</i> 35(5): 254-255, 1994.
	AQ	Diggles et al., "Biodistribution and Dosimetry of Tc-99m P280: A Phase I Study," <i>The Journal Of Nuclear Medicine</i> 36(5):p. 183P, Abstract No. 827, 1995.
	AR	Fernandez et al., "The Structure of Anchorin CII, a Collagen Binding Protein Isolated from Chondrocyte Membrane," <i>J. Biolog. Chem.</i> 236(12): 5921-5925, 1988.

EXAMINER

H. G. Hay

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9/25/02

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APPLICANTS

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FILING DATE

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GROUP ART UNIT

1619

U.S. PATENT DOCUMENTS

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	AA	5,484,711	01/16/96	Wallner et al.			
	AB	5,589,395	12/31/96	Romisch et al.	436	71	
	AC	5,616,690	04/01/97	Axworthy et al.	530	363	
	AD	5,627,036	05/06/97	Reutelingsperger	435	7.21	
	AE	5,632,986	05/25/97	Tait et al.	424	9.464	
	AF	5,645,815	07/08/97	Dean et al.	424	1.69	
	AG	5,654,272	08/05/97	Dean	514	12	
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	AI						
	AJ						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	AK					

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	AL	Findeis, "Stepwise Synthesis of a GalNAc-containing Cluster Glycoside Ligand of the Asialoglycoprotein Receptor," <i>Int. J. Peptide Protein Res.</i> 43: 477-485, 1994.
	AM	Flaherty et al., "Placental Anticoagulant Protein-I: Measurement in Extracellular Fluids and Cells of the Hemostatic System," <i>The Journal of Laboratory and Clinical Medicine</i> 115(2): 174-181, 1990.
	AN	Fraker et al., "Protein and Cell Membrane Iodinations with a Sparingly Soluble Chloroamide, 1, 3, 4, 6-tetrachloro-3a, 6a-diphenylglycoluril," <i>Biochemical and Biophysical Research Communications</i> 80(4): 849-857, 1978.
	AO	Fritzberg et al., "Specific and Stable Labeling of Antibodies with Technetium-99m with a Diamide Dithiolate Chelating Agent," <i>Proc. Natl. Acad. Sci. USA</i> 85: 4025-4029, 1988.
	AP	Funakoshi et al., "Human Placental Anticoagulant Protein: Isolation and Characterization," <i>Biochemistry</i> 26: 5572-5578, 1987.

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AA						

FOREIGN PATENT DOCUMENTS

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				YES	NO
AB					

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AC	Funakoshi et al., "Primary Structure of Human Placental Anticoagulant Protein," <i>Biochem.</i> 26: 8087-8092, 1987.
AD	Galli et al., "A Radiopharmaceutical for the Study of the Liver: ^{99m} Tc-DTPA-Asialo-Orosomucoid, I: Radiochemical and Animal Distribution Studies," <i>J. Nucl. Med. Allied Sci.</i> 32(2): 110-116, 1988.
AE	Grundman et al., "Characterization of cDNA Encoding Human Placental Anticoagulant Protein (PP4): Homology with the Lipocortin Family," <i>Proc. Natl. Acad. Sci.</i> 85: 3078-3712, 1988.
AF	Habeeb, "Determination of Free Amino Groups in Proteins by Trinitrobenzenesulfonic Acid," <i>Analytical Biochemistry</i> 14: 328-336, 1966.
AG	Haensler et al., "Synthesis and Characterization of a Trigalactosylated Bisacridine Compound to Target DNA to Hepatocytes," <i>Bioconjugate Chem.</i> 4: 85-93, 1993.
AH	Harris et al., "Design and Synthesis of Radiolabeled GP IIb/IIIa Receptor Antagonist as Potential Thrombus Imaging Agents," <i>The Journal Of Nuclear Medicine</i> 35(5):9. 245P, Abstract No. 1005B, 1994.
AI	Hashida et al., "Hepatic targeting of drugs and proteins by chemical modification," <i>Journal of Controlled Release</i> 36(1): 99-107, 1995.
AJ	Iwasaki et al., "Structure and Expression of cDNA for an Inhibitor of Blood Coagulation Isolated from Human Placenta: A New Lipocortin-like Protein," <i>J. Biochem.</i> 102: 1261-1273, 1987.
AK	Jansen et al., "Hepatic Endocytosis of Various Types of Mannose-terminated Albumins," <i>J. of Biological Chem.</i> 266(5): 3343-3348, 1991.
AL	Kaplan et al., "Cloning and Expression of cDNA for Human Endonexin II, a Ca ²⁺ and Phospholipid Binding Protein," <i>J. Biolog. Chem.</i> 263(17): 8037-8043, 1988.

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






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AA						

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	DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
				YES	NO
AB					

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	AC	Kasina et al., "Development and Biological Evaluation of a Kit for Preformed Chelate Technetium-99m Radiolabeling of an Antibody Fab Fragment Using a Diamide Dimercaptide Chelating Agent," <i>The Journal of Nuclear Medicine</i> 32(7): 1445-1451, 1991.
	AD	Kasina et al., "Preformed Chelate TC-99m Radiolabeling Of r-Annexin V For Arterial Thrombus Imaging," <i>Journal of Nuclear Medicine</i> 37(Suppl. 5): 29P., 1996.
	AE	Knight et al., "Thrombus Imaging with Technetium-99m Synthetic Peptides Based upon the Binding Domain of a Monoclonal Antibody to Activated Platelets," <i>The Journal of Nuclear Medicine</i> 35(2): 282-288, 1994.
	AF	Koblick et al., "Current Status of Immunoscintigraphy in the Detection of Thrombosis and Thromboembolism," <i>Seminars in Nuclear Medicine</i> XLX(3): 221-237, 1989.
	AG	Krantz et al., "Attachment of Thioglycosides to Proteins: Enhancement of Liver Membrane Binding," <i>Biochem. 15</i> (18): 3963-3968, 1976.
	AH	Law et al., "A Microplate Method for the Determination of Amino Groups in Monoclonal Antibodies," <i>Hybridoma</i> 9(4): 397-399, 1990.
	AI	Lee et al., "2-Imino-2-methoxyethyl 1-thioglycosides: New Reagents for Attaching Sugars to Proteins," <i>Biochem. 15</i> (18): 3956-3962, 1976.
	AJ	Lee et al., "New Synthetic Cluster Ligands for Galactose/N-Acetylgalactosamine-specific Lectin of Mammalian Liver," <i>Biochem. 15</i> (18): 4255-4261, 1984.
	AK	Lee et al., "Preparation of Cluster Glycosides of N-acetylgalactosamine That Have Subnanomolar Binding Constants Towards the Mammalian Hepatic Gal/GalNAc-specific Receptor," <i>Glycoconjugate J.</i> 4: 317-328, 1987.
	AL	Lister-James et al., "Tc-99m P748. A Receptor-Binding Techtide™ for Imaging Activated Platelets," <i>The Journal Of Nuclear Medicine</i> 36(5):p. 16P, Abstract No. 57, 1995.

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Sudhakar Kasina et al.

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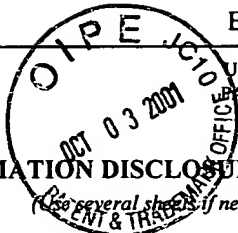
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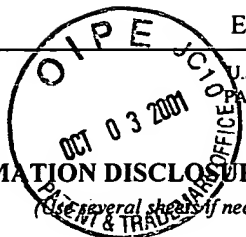
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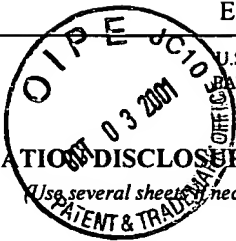
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
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